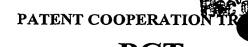
Translation





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FE01E013WO	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/EP2003/010655	International filing date (day/month/y/ 25 September 2003 (25.09.20					
		03) 26 September 2002 (26.09.2002)				
International Patent Classification (IPC) or national classification and IPC B21K 21/12						
Applicant FELSS GMBH						
1. This report is the international prelin	inary examination report established	by this International Preliminary Evamining				
Authority under Article 35 and trans	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of	4 sheets, including this c	over sheet.				
This report is also accompanied by A	NNEXES, comprising:	·				
a. (sent to the applicant and	to the International Bureau) a total of	4 sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the rep	Box No. I Basis of the report					
Box No. II Priority						
Box No. III Non-establishn	ent of opinion with regard to novelty,	inventive step and industrial applicability				
Box No. IV Lack of unity o	f invention					
Box No. V Reasoned states citations and ex	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docume						
Box No. VII Certain defects	in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand	Date of comple	Date of completion of this report				
01 April 2004 (01.04.20	004) 2	22 December 2004 (22.12.2004)				
Name and mailing address of the IPEA/EP	· Authorized offi	Authorized officer				
Facsimile No.	Telephone No.	Telephone No.				

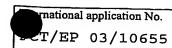
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

ternational application No.

PCT/EP2003/010655

BOX NO). 1	Basis of	the report					
1. With othe	ı regaro rwise i	i to the la	nguage, this report is under this item.	s based on the inte	rnational application in th	ne language in which it was filed, unless		
	This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of:							
	international search (under Rules 12.3 and 23.1(b))							
l	publication of the international application (under Rule 12.4)							
	international preliminary examination (under Rules 55.2 and/or 55.3)							
				(2.00 55.2 ma or 55.5)			
jain	are not The i	annexed	tving Office in respo to this report): nal application as orig	nse to an invitatio	n under Article 14 are re	d on (replacement sheets which have been eferred to in this report as "originally filed"		
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	pages	*		rec	eived by this Authority o			
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	pages	*			, as amended	(together with any statement) under Article 19		
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3.	The		t= h t 1 !					
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	(Rule 7	70.2(c)). the descrip the claims the drawir the sequer	ption, pages , Nos. ngs, sheets/figs nce listing (specify):	ered to go beyond	nendments annexed to the			
* If item	4 appl	ies, some	or all of those sheets	may be marked "s	ruperseded."			

INTERNATIONAL PROMINARY EXAMINATION REPORT



v .	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement	-						
	Novelty (N)	Claims	1-10	YES				
		Claims		- NO .				
	Inventive step (IS)	Claims	1-10	YES				
		Claims		NO				
	Industrial applicability (IA)	Claims	1-10	YES				
		Claims		NO.				

2. Citations and explanations

The method according to document GB-A-1472860 (D1) for producing a tubular workpiece, a workpiece with a rectangular shoulder and a device for producing workpieces such as these is considered obvious prior art. According to D1, an original workpiece is first preformed by cold forming; this preformed original workpiece is then finally formed by hot forming into a workpiece with a rectangular shoulder.

The subject matter of independent claims 1, 5 and 6 thus differs from the closest prior art at least in that the method of final forming is cold forming.

Therefore, the subject matter of claims 1, 5 and 6 is novel (PCT Article 33(2)).

The effect of this differentiating feature is that there is no disadvantageous change to the microstructure of the material caused by heating.

The problem to be solved by the present invention can thus be seen as that of preventing a weakening of the wall of the workpiece.

INTERNATIONAL PROMINARY EXAMINATION REPORT

The solution to this problem as proposed in claims 1, 5 and 6 of the present application involves an inventive step (PCT Article 33(3)).

Document D1 does not give a person skilled in the art any suggestion of reforming a preformed workpiece into a workpiece with a rectangular shoulder by cold forming rather than by hot forming.

Claims 2-4 are dependent upon claim 1 and thus likewise satisfy the PCT requirements with respect to novelty and inventive step.

Claims 7-10 are dependent upon claim 6 and thus likewise satisfy the PCT requirements with respect to novelty and inventive step.